

Notice of Allowability

Application No.

10/813,043

Examiner

Chau Nguyen

Applicant(s)

FUJITA, SATORU

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2176

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 01/16/2007.
2. ☒ The allowed claim(s) is/are 1-3, 16 and 19-21.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date 01/16/2007
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

William L. Bashore
WILLIAM BASHORE
PRIMARY EXAMINER

REASONS FOR ALLOWANCE

1. The following is a statement of reasons for the indication of allowable subject matter:

In interpreting the claims in light of the specification and applicant's arguments, the Examiner finds the claimed invention is patentably distinct from the prior art of record.

2. The prior art of records includes Wan, US Patent Application Publication No. US 2004/0028049 A1, Worden, US Patent Application Publication No. US 2003/0149934 A1, and Kobayashi et al (Kobayashi), US Patent Application Publication No. US 2002/0138518.

Wan discloses computer system (sending computer) performs an XML encoding function such as encoding an XML document (structured document) using encoder 302, server computer 850 (receiving computer) performs an XML decoding function using decoder 402 such as decoding the encoded XML document receiving from the computer system 800 over the communication network 820, and encoding XML document is to encode the tree hierarchy of the document, the structure of the document and the text contained therein can be concatenated into a single stream, and generating the structure document (validation information) (pages 2-3, paragraphs [0035], [0038], [0043]-[0044] page 5, paragraphs [0075]-[0076]. Wan also disclose XML documents are validated against their DTD's or schemas (predetermined document type declaration) (page 5, paragraph [0076]).

Worden discloses XML structure tree diagram showing the possible nesting structure of element without repetition of the repeatable elements (page 6, paragraph [0089] and page 25, paragraphs [0457] and [0483]).

Kobayashi discloses encoding a document data written in a description language of an extensible text format to a code data, based on a translation table written in a description language of an extensible text format. The translation table define a code length and a code assigned to items of the link information, an element name, an element value of the element name, an attribute name designated in the element name, and attribute value of the attribute name (Abstract and Figs 1-4 and 5a-5d).

3. Claim 1 is allowed because the prior art of record does not expressly disclose alone or in combination the validation information including: a partial structure list which lists partial structures within said internal representation without duplication, an element name list which lists element names of elements described in said internal representation, an attribute name list which lists attribute names of attributes used in said internal representation, a text content list which lists text contents of text-including elements out of said elements described in said internal representation without duplication, and an attribute value list which lists attribute values of said attributes used in said internal representation, wherein said validation module validates whether said partial structures are in compliance with a syntax defined in said document type declaration, wherein said partial structures are respectively associate with structure Ids, wherein said text contents and said attribute values are respectively associated with text Ids in said text content list and said attribute value list, wherein each of said partial

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structures is described in said partial structure list using an element ID of an associated parent element described in said internal representation, and attribute ID of an attribute associated with said parent element, and element ID of a child element of said parent element, and a symbol which represents that said parent element have a text content, wherein said encoded document includes a whole structure data describing a whole structure of said internal representation using structure IDs, and said text IDs, and wherein said decoder module reproduces said internal representation using said element name list, said attribute name list, and said whole structure data.

4. The dependent claims 2-3, 19 and 20 further limit independent claim 1. Claims 16 and 21 are considered allowable for the same reasons set forth for claim 1.

5. Any comments considered necessary by applicant must be submitted no later than the payment of the Issue Fee and, to avoid processing delays, should preferably accompany the Issue Fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chau Nguyen whose telephone number is (571) 272-4092. The Examiner can normally be reached on Monday-Friday from 8:30 am to 5:30 pm.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Heather Herndon, can be reached at (571) 272-4136.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. On July 15, 2005, the Central Facsimile (FAX) Number will change from 703-872-9306 to 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chau Nguyen
Patent Examiner
Art Unit 2176

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